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# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

rst Named

Inventor : Xueshi Yang et al.

Appln. No.: 10/771,813

Filed: February 3, 2004

: PATTERN-DEPENDENT

EQUALIZATION AND DETECTION

Docket No.: S01.12-1013

Group Art Unit:

Examiner:

# INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

I HEREBY CERTIFY THAT THIS PAPER IS BEING SENT BY U.S. MAIL, FIRST CLASS, TO THE COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450, THIS

PATENT ATTORNEY

Sir:

For

'n,

The patents or publications listed on the enclosed PTO Form-1449 are submitted pursuant to 37 C.F.R. § 1.97. Copies of the patents or publications cited are enclosed.

# TIME OF FILING

The information disclosure statement is being filed:

- 1. X with the application or within three months of the filing date of the application or date of entry into the national stage of an international application or before the mailing date of a first Office action on the merits, whichever event occurs last. In accordance with 37 C.F.R. § 1.97(b), no statement or fee is required.
- 2. \_\_\_ after the time period specified in paragraph 1 above, but before the mailing date of a final action under 37 C.F.R. § 1.113 or notice of allowance under 37 C.F.R. § 1.311. Therefore, in accordance with 37 C.F.R. § 1.97(c), submitted herewith is:

(check either A or B below)

A. \_\_\_ a statement as specified in 37 C.F.R. § 1.97(e).

- B. \_\_\_ the fee set forth in 37 C.F.R. § 1.17(p) for submission of an information disclosure statement under 37 C.F.R. § 1.97(c).
- 3. \_\_\_ after the mailing date of either a final action under 37 C.F.R. § 1.113 or a notice of allowance under 37 C.F.R. § 1.311, whichever occurs first, but before payment of the issue fee. Therefore, Applicant petitions for consideration and submits herewith:
  - A. a statement as specified in 37 C.F.R. § 1.97(e);
  - B. the petition fee set forth in 37 C.F.R. § 1.17(p).

#### STATEMENT

(only used if No. 2(A) or No. 3 above is checked) The person(s) signing below certify

(check appropriate paragraph)

that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement. 37 C.F.R. § 1.97(e)(1).

OR

that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the person signing certification after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement. 37 C.F.R. § 1.97(e)(2).

### METHOD OF PAYMENT

<u>X</u>	No f	ee	is	requi	ced.	•			
At	tached	is	a	check	in	the	amount	of	\$ 

The Director is authorized to charge any fee deficiency required by this paper or credit any overpayment to Deposit Account No. 23-1123. A duplicate copy of this communication is enclosed.

Respectfully submitted,

WESTMAN, CHAMPLIN & KELLY, P.A.

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Phone: (612) 334-3222 Fax: (612) 334-3312

RMR/JKC/rkp

FORM PTO-1449	Atty. Docket No.: S01.12-1013/STL 11469.00	Appl. No.: 10/771,813					
REJUIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	First Named Invento	First Named Inventor:					
APPLICANT'S INFORMATION DISCLOSURE STATEMENT  PATENT & TRADE	Xueshi Yang et al.						
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CATENT & TRANS	February 3, 2004						

### U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
AA	6,201,839	03/2001	Kavcic et al.	375	341	
AB	6,438,180	08/2002	Kavcic et al.	375	341	
AC	6,460,150	10/2002	Cideciyan et al.	714	709	
AD						

#### FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
AE						

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AF	Moon, J. and Park, J. "Pattern-Dependent Noise Prediction in Signal-Dependent Noise," IEEE Journal on Selected Areas in Communications, vol. 19, no. 4, pp. 730-743 (April 2001).
AG	J. Coker et al. "Noise-Predictive Maximum Likelihood (NPML) Detection," IEEE Transactions on Magnetics, vol. 23, no. 1, pp. 110-117 (January 1998).
AH	J. Caroselli et al. "Improved Detection for Magnetic Recording Systems with Media Noise," IEEE Transactions on Magnetics, vol. 33, no. 5, pp. 2779-2781 (September 1997).
, AI	Kavcic, Aleksandar "Decision Feedback Equalization in Channels with Signal-Dependent Media Noise," IEEE Transactions on Magnetics, vol. 37, no. 4, pp. 1909-1911 (July 2001).
AJ	Nair, S.K.; Moon, J.; "Nonlinear Equalization for Data Storage Channels" IEEE International Conference on Communications, ICC '94, SUPERCOMM/ICC '94, Conference Record, Serving Humanity Through Communications, Vol. 1, pp. 250-254 (May 1994).
AK	Forney, Jr. David G, "Maximum-Likelihood Sequence Estimation of Digital Sequences in the Presence of Intersymbol Inteference," IEEE Transactions on Information Theory, vol. IT-18, no. 3, pp. 363-378 (May 1972).
AL	Moon, J. and Zeng, W. "Equalization for Maximum Likelihood Detectors," IEEE Transactions on Magnetics, vol. 31, no. 2, pp. 1083-1088 (March 1995).

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

# Sheet 2 OF 3

FORM PTO-1	449					S01		Oocket -1013/ OO		Appl. No.: 10/771,813		
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT							First Named Inventor:					
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# Sheet 3 of 3

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LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT							First Named Inventor:					
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